

BENNTOP 576Wh 600W (NFC) LiFePo4

BENNTOP Portable Power Station 576Wh 600W (NFC) LiFePo4 User Manual

Model: 576Wh 600W (NFC) LiFePo4

1. INTRODUCTION

Thank you for choosing the BENNTOP Portable Power Station. This device is designed to provide reliable power for various applications, including camping, travel, and as an emergency backup generator. Featuring a 576Wh LiFePo4 battery and 600W output, it offers multiple charging and output options, including NFC wireless charging. Please read this manual thoroughly before use to ensure safe and optimal performance.

2. SAFETY INSTRUCTIONS

Always follow these safety guidelines to prevent injury or damage to the device:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to high temperatures (above 60°C/140°F).
- Do not use or store the unit in a bathroom or in areas exposed to rain or moisture.
- Do not use the unit if it is damaged or has been dropped.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use to prevent overheating.
- Use only BENNTOP-approved accessories and charging cables.
- The LiFePO4 battery is stable, but avoid puncturing or exposing it to extreme physical shock.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are included:

- BENNTOP Portable Power Station
- User Manual (in 5 languages)

- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable (MC4 to DC)



Figure 3.1: Included accessories with the BENNTOP Portable Power Station.

4. PRODUCT OVERVIEW

4.1. Ports and Features

The BENNTOP Portable Power Station is equipped with a variety of input and output ports to meet diverse power needs:

- **AC Output:** 1 Pure Sine Wave AC outlet (600W)
- **DC Output:** 2 DC ports, 1 DC cigarette lighter port (12V/10A)
- **USB Output:** 2 USB-A ports (QC3.0), 1 USB-C PD18W port, 1 USB-C PD100W port
- **Wireless Charging:** Integrated 15W NFC wireless charging pad
- **LED Light:** Built-in LED light with multiple modes (soft, bright, SOS)

9 Outputs to Meet your Multi-Device Use



Figure 4.1: Overview of output ports and wireless charging.

4.2. LCD Display

The intuitive LED display provides real-time information about the power station's status:

- Battery Level Indicator
- Input Power (Watts)
- Output Power (Watts)
- AC/DC/USB/Type-C Status Indicators



Figure 4.2: Detailed view of the LCD display.

5. SETUP

5.1. Initial Charge

Before first use, fully charge the power station. This ensures optimal battery calibration and performance. Connect the AC charging cable to a wall outlet and to the power station's input port. The LCD display will show the charging status.

5.2. Placement

Place the power station on a stable, flat surface. Ensure there is adequate ventilation around the unit to prevent overheating. Avoid direct sunlight or enclosed spaces.

6. OPERATING INSTRUCTIONS

6.1. Charging the Power Station

The BENNTOP Power Station offers multiple charging methods:

- **AC Wall Outlet:** Connect the included AC charging cable. Full charge in approximately 5 hours.
- **Solar Panel:** Connect a compatible solar panel (12V-24V / 5A max 120W) using the solar charging cable. Charging time varies based on sunlight intensity and panel wattage.
- **Car Charger:** Use the included car charging cable to charge from your vehicle's 12V cigarette lighter port.
- **USB-C PD100W:** Use a compatible USB-C PD charger for fast charging.

7 Ways to Charge, Fully Charged Anytime, Anywhere

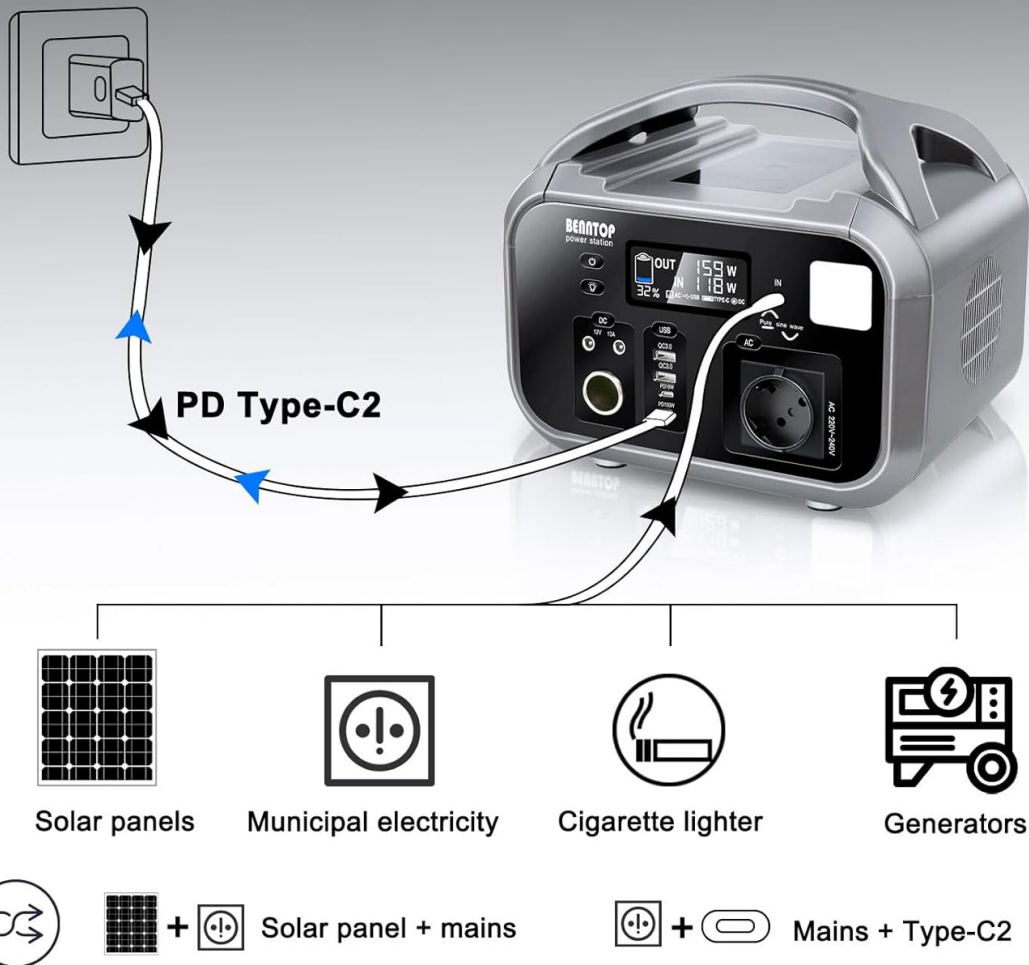


Figure 6.1: Various charging methods for the power station.

6.2. Discharging (Using Outputs)

To use the power station, press the main power button. Then, activate the specific output section (AC, DC, USB) you wish to use by pressing its respective button. The LCD display will show the output wattage.

- **AC Output:** For devices requiring 230V AC power, up to 600W.
- **DC Output:** For 12V DC devices.
- **USB Output:** For charging smartphones, tablets, laptops, and other USB-powered devices.
- **Wireless Charging:** Place your NFC-compatible device on the wireless charging pad.

Mobile Electric Box In Your Hand

Safe and true power

Pure sine wave output

576WH

600W



Figure 6.2: Powering multiple devices with the power station.

6.3. LED Light Operation

Press the LED light button to cycle through its modes: soft illumination, bright illumination, and SOS flashing mode for emergencies.



Charge sans fil,
pratique et rapide, la puissance de
charge est de 15W, peut répondre à la
consommation d'énergie de votre
téléphone.

Figure 6.3: LED light in use.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your power station:

- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to 50-80% every 3-6 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.
- **Battery Life:** The LiFePO4 battery is designed for over 2500 charge cycles, providing a lifespan of approximately 10 years under normal use.
- **Ventilation:** Ensure the cooling vents are clear of dust and debris to maintain efficient heat dissipation. The powerful fans help regulate temperature in various environments.

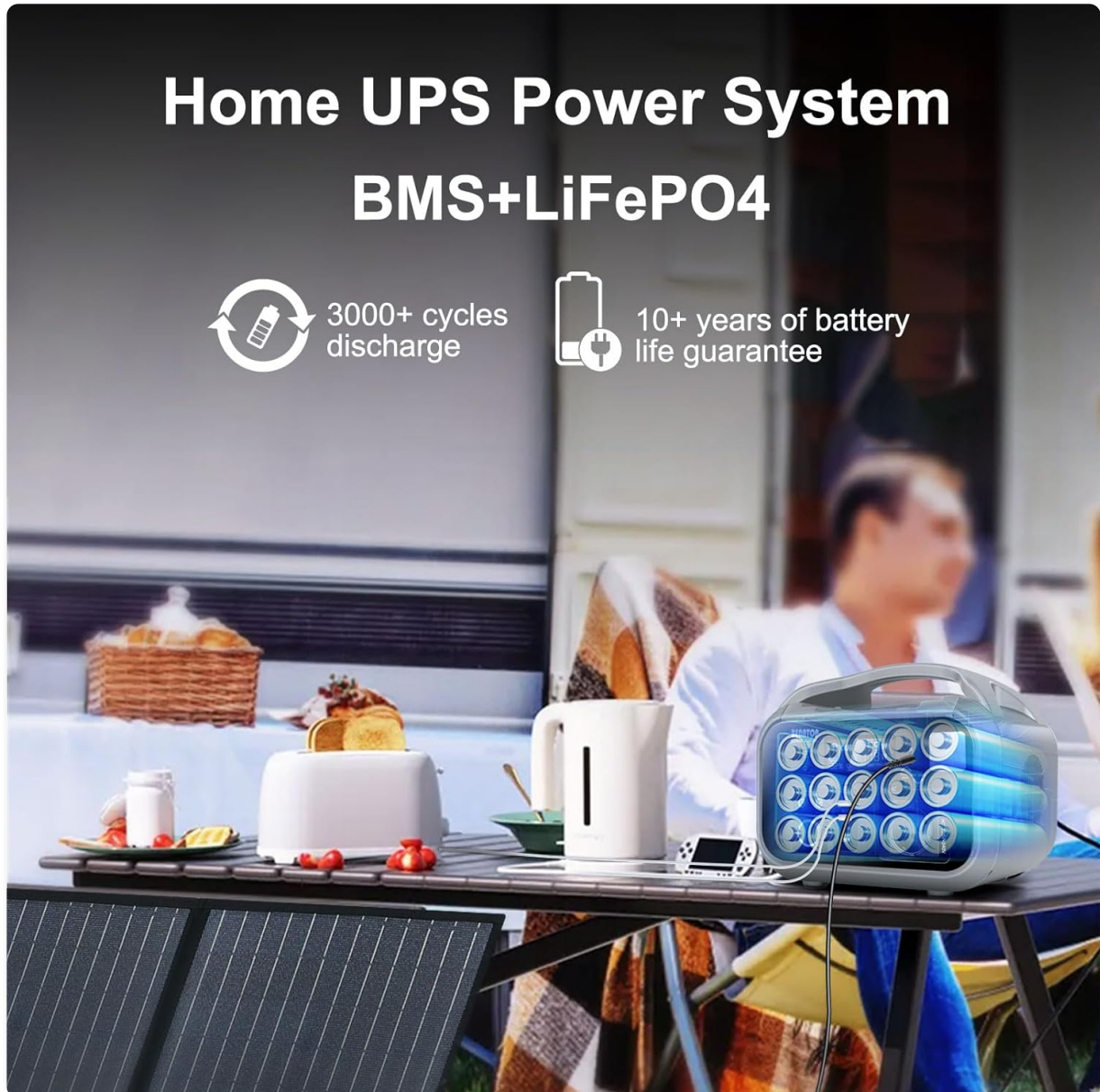


Figure 7.1: LiFePO4 battery longevity and UPS capability.

8. TROUBLESHOOTING

If you encounter issues with your power station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on	Battery is depleted; Power button not pressed correctly.	Charge the unit using an AC adapter. Press and hold the power button for 3 seconds.
No output from ports	Output port not activated; Device requires more power than available; Cable issue.	Ensure the specific output button (AC/DC/USB) is pressed. Check device power requirements. Try a different cable.
Charging is slow or not working	Incorrect charger/cable; Solar panel not receiving enough sunlight; Overheating.	Use original or compatible charging accessories. Reposition solar panel. Allow unit to cool down.
Battery indicator shows sudden drop or incorrect percentage (e.g., drops to 0% at 50%)	Battery calibration issue; Faulty battery cell; BMS error.	Fully discharge the unit until it turns off, then fully recharge it to recalibrate the battery. If the issue persists, contact customer support.
Unit overheats	Poor ventilation; Excessive load.	Ensure vents are clear. Reduce the number or power of connected devices. Move to a cooler environment.

9. SPECIFICATIONS

Detailed technical specifications for the BENNTOP Portable Power Station:

Feature	Specification
Brand	BENNTOP
Model	576Wh 600W (NFC) LiFePo4
Battery Type	LiFePO4
Capacity	576Wh
Rated Power (AC)	600W (Pure Sine Wave)
Peak Power (AC)	1000W
AC Voltage	230V
DC Output	2 x DC ports, 1 x 12V/10A Car Cigarette Lighter
USB Output	2 x USB-A QC3.0, 1 x USB-C PD18W, 1 x USB-C PD100W
Wireless Charging	15W NFC
Charging Input (AC)	Approx. 5 hours for full charge
Charging Input (Solar)	12V-24V / 5A (Max 120W)

Feature	Specification
Dimensions (L x W x H)	27 cm x 24 cm x 16 cm
Weight	10 Kilograms
Special Features	BMS (Battery Management System), LED Light, UPS Functionality



Figure 9.1: Product dimensions.

10. WARRANTY AND SUPPORT

BENNTOP is committed to providing high-quality products and excellent customer service. Your Portable Power Station comes with a manufacturer's warranty against defects in materials and workmanship.

- For warranty claims or technical assistance, please contact our 24-hour technical support team.
- Please have your product model and purchase information ready when contacting support.

For further assistance, please visit the BENNTOP store on Amazon: [BENNTOP Store](#)

